



Technical Data Sheet WSLHP7 & WSLHP12

This Technical Data Sheet is made in accordance with Ecodesign Requirements outlined in Regulation (EU) No 811/2013 and Regulation (EU) No 813/2013.

1 Low temperature Heating WSLHP7

Model(s):				WSLHP7			
Air-to-water heat pump				yes			
Water-to-water heat pump				no			
Brine-to-water heat pump				no			
Low-temperature heat pump				no			
Equipped with a supplementary heater				yes			
Heat pump combination heater				no (yes(***))			
Parameters are declared for low temperature application				yes			
Parameters are declared for average climate condition				yes			
Parameters are declared at variable outlet water temperature				yes			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	s	163	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	5,4	kW	Tj = -7°C	COPd	3,06	-
Tj = +2°C	Pdh	5,7	kW	Tj = +2°C	COPd	4,28	-
Tj = +7°C	Pdh	4,1	kW	Tj = +7°C	COPd	5,27	-
Tj = +12°C	Pdh	4,0	kW	Tj = +12°C	COPd	7,54	-
Tj = bivalent temperature	Pdh	6,7	kW	Tj = bivalent temperature	COPd	2,79	-
Tj = operation limit temperature	Pdh	6,7	kW	Tj = operation limit temperature	COPd	2,79	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW	For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	0	kW	Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1,00	-	Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0,005	kW	Rated heat output (**)	Psup	3 x 2	kW
Thermostat-off mode	PTO	0,011	kW				
Standby mode	PSB	0,010	kW	Type of energy input electrical heater			
Crankcase heater mode	PCK	0,031	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	1900	m³/h
Sound power level, indoors/outdoors	LWA	63 / 35	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	3346	kWh				
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							
(***) In combination with indoor unit HM-142-S1							

2 High temperature Heating WSLHP7

Model(s):				WSLHP7			
Air-to-water heat pump				yes			
Water-to-water heat pump				no			
Brine-to-water heat pump				no			
Low-temperature heat pump				no			
Equipped with a supplementary heater				yes			
Heat pump combination heater				no (yes(***))			
Parameters are declared for middle temperature application				yes			
Parameters are declared for average climate condition				yes			
Parameters are declared at variable outlet water temperature				yes			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	s	112	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	4,6	kW	Tj = -7°C	COPd	1,9	-
Tj = +2°C	Pdh	3,3	kW	Tj = +2°C	COPd	3,06	-
Tj = +7°C	Pdh	3,5	kW	Tj = +7°C	COPd	3,55	-
Tj = +12°C	Pdh	4,4	kW	Tj = +12°C	COPd	5,35	-
Tj = bivalent temperature	Pdh	5,4	kW	Tj = bivalent temperature	COPd	1,23	-
Tj = operation limit temperature	Pdh	5,4	kW	Tj = operation limit temperature	COPd	1,23	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW	For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	0	kW	Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1,00	-	Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0,005	kW	Rated heat output (**)	Psup	3 x 2	kW
Thermostat-off mode	PTO	0,011	kW	Type of energy input	electrical heater		
Standby mode	PSB	0,010	kW				
Crankcase heater mode	PCK	0,031	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	1900	m³/h
Sound power level, indoors/outdoors	LWA	64 / 35	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	3897	kWh				
For heat pump combination heater(***)							
Declared load profile	XL			Water heating energy efficiency	wh	98	%
Daily electricity consumption	Qelec	8,1	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	1710	kWh	Annual fuel consumption	AFC	-	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							
(***) In combination with indoor unit HM-142-S1							

3 Low temperature Heating WSLHP12

Model(s):				WSLHP12			
Air-to-water heat pump				yes			
Water-to-water heat pump				no			
Brine-to-water heat pump				no			
Low-temperature heat pump				no			
Equipped with a supplementary heater				yes			
Heat pump combination heater				no (yes(***))			
Parameters are declared for low temperature application				yes			
Parameters are declared for average climate condition				yes			
Parameters are declared at variable outlet water temperature				yes			
Item				Item			
Symbol				Symbol			
Value				Value			
Unit				Unit			
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	s	182	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperatur Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperatur Tj			
Tj = -7°C	Pdh	10.5	kW	Tj = -7°C	COPd	3.24	-
Tj = +2°C	Pdh	6.7	kW	Tj = +2°C	COPd	4.73	-
Tj = +7°C	Pdh	7.9	kW	Tj = +7°C	COPd	5.79	-
Tj = +12°C	Pdh	9.3	kW	Tj = +12°C	COPd	8.42	-
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	2.71	-
Tj = operation limit temperature	Pdh	11.8	kW	Tj = operation limit temperature	COPd	2.71	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW	For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	0	kW	Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1.00	-	Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0.010	kW	Rated heat output (**)	Psup	3 x 2	kW
Thermostat-off mode	PTO	0.019	kW	Type of energy input	electical heater		
Standby mode	PSB	0.019	kW				
Crankcase heater mode	PCK	0.041	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3800	m³/h
Sound power level, indoors/ outdoors	LWA	67 / 35	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	5154	kWh				
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							
(***) In combination with indoor unit WSL142							

4 High temperature Heating WSLHP12

Model(s):				WSLHP12			
Air-to-water heat pump				yes			
Water-to-water heat pump				no			
Brine-to-water heat pump				no			
Low-temperature heat pump				no			
Equipped with a supplementary heater				yes			
Heat pump combination heater				no (yes(***))			
Parameters are declared for middle temperature application				yes			
Parameters are declared for average climate condition				yes			
Parameters are declared at variable outlet water temperature				yes			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	s	125	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	9,7	kW	Tj = -7°C	COPd	2,07	-
Tj = +2°C	Pdh	6,2	kW	Tj = +2°C	COPd	3,41	-
Tj = +7°C	Pdh	7	kW	Tj = +7°C	COPd	3,94	-
Tj = +12°C	Pdh	8,5	kW	Tj = +12°C	COPd	5,70	-
Tj = bivalent temperature	Pdh	11,3	kW	Tj = bivalent temperature	COPd	1,14	-
Tj = operation limit temperature	Pdh	11,3	kW	Tj = operation limit temperature	COPd	1,14	-
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	/	kW	For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd	/	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	0	kW	Cycling interval efficiency	COPcyc	0	-
Degradation co-efficient (**)	Cdh	1,00	-	Heating water operating limit temperature	WTOL	63	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0,010	kW	Rated heat output (**)	Psup	3 x 2	kW
Thermostat-off mode	PTO	0,019	kW	Type of energy input	electrical heater		
Standby mode	PSB	0,019	kW				
Crankcase heater mode	PCK	0,041	kW				
Other items				For air-to-water heat pumps:			
Capacity control	variable			Rated air flow rate, outdoors	-	3800	m³/h
Sound power level, indoors/outdoors	LWA	67 / 35	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	7074	kWh				
For heat pump combination heater(***)				Water heating energy efficiency			
Declared load profile	XL				wh	89	%
Daily electricity consumption	Qelec	9,0	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	1881	kWh	Annual fuel consumption	AFC	-	GJ
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							
(***) In combination with indoor unit HM-142-S1							